EVALUATION OF REFLECTED TIME-ENERGY PROFILE FOR DETERMINATION OF DAMPING CAPACITY

Abstract of the Disclosure

A method for measuring the acoustic damping capacity of a material or structure, such as a layered honeycomb structure, comprises tapping the honeycomb structure with a tapping rod. The tapping action imparts mechanical energy to the honeycomb structure. The method further comprises measuring, for a time interval, energy reflected from the honeycomb structure as a result of the tapping. The method further comprises creating a time-energy profile based on the energy reflected from the honeycomb structure during the time interval. The method further comprises evaluating the time-energy profile to determine the acoustic damping capacity of the honeycomb structure.

PATENT

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